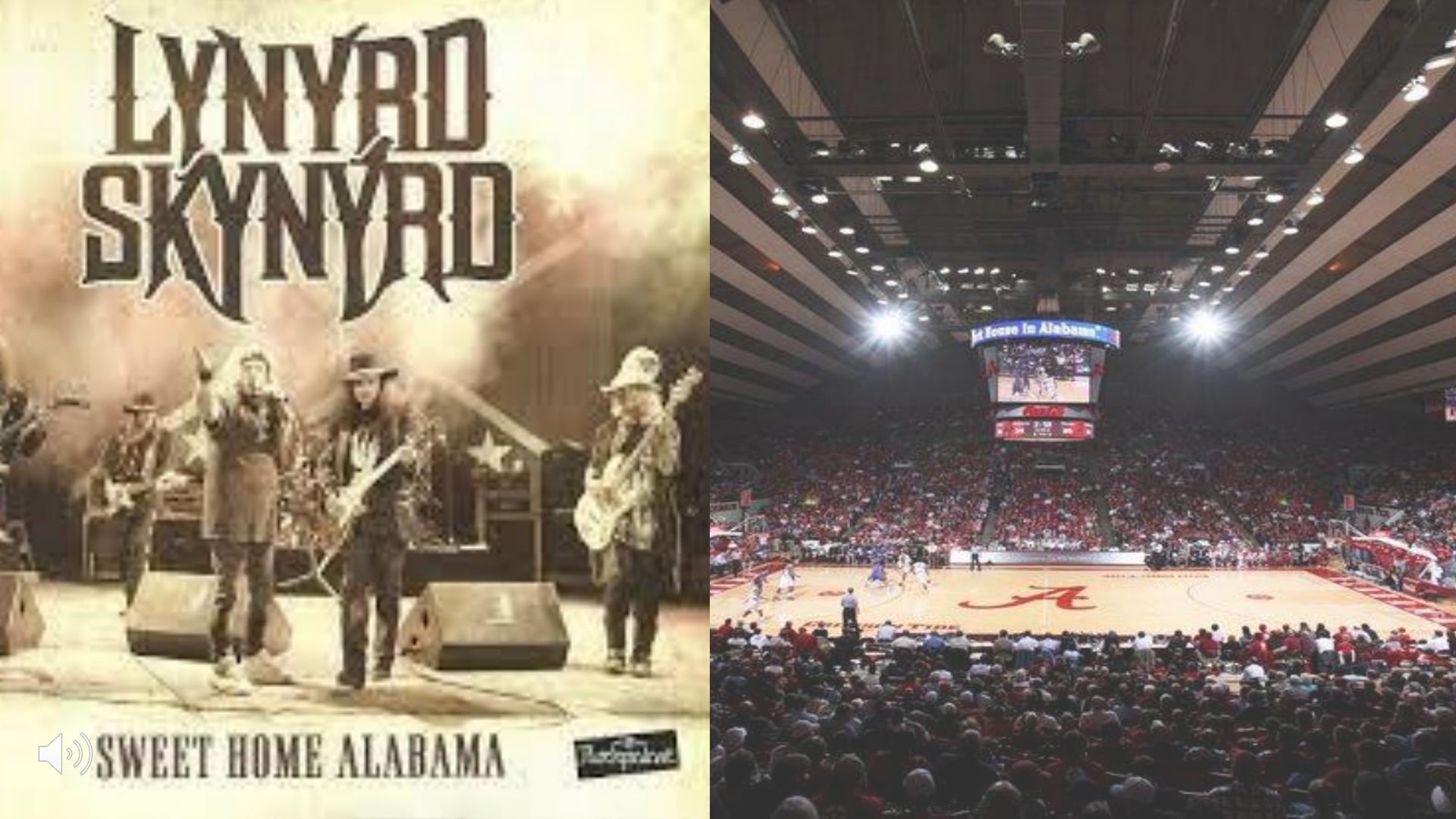


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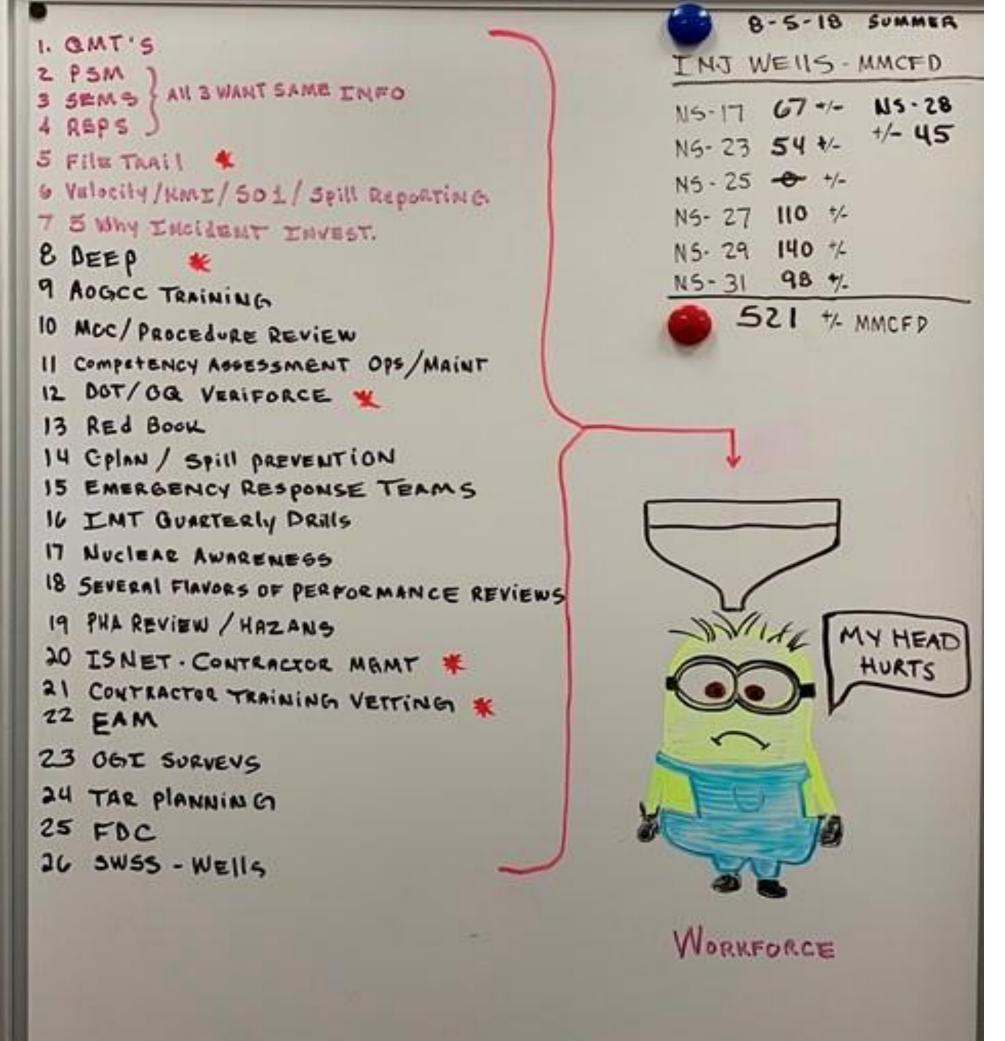
Gas Transmission and Hazardous Liquid Pipelines
Pipeline data as of 08/26/2022 Map created August, 2022 Projection: Albers Equal Area, NAD 83 **NPMS Pipelines** Gas Transmission Hazardous Liquid

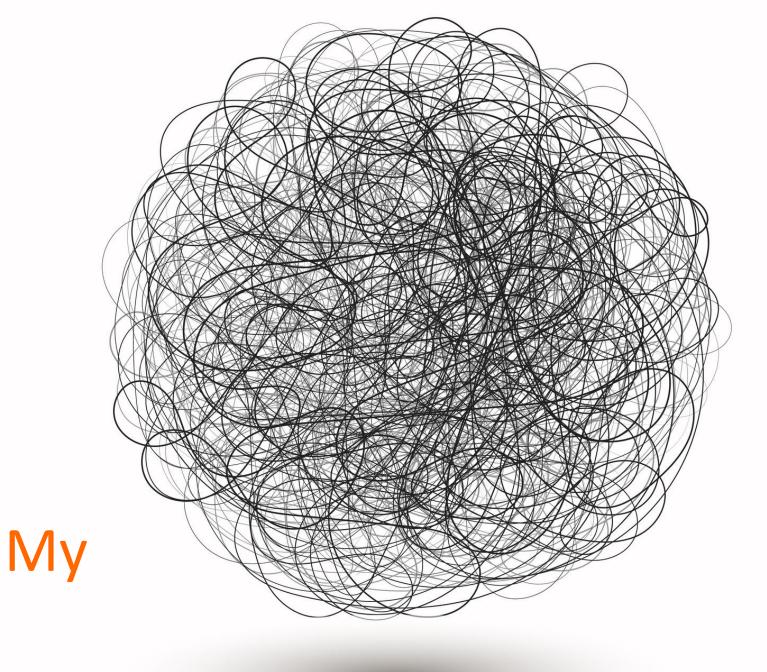
3 Million Miles

Safest Mode with Inherent Risk

Unprecedented New Rulemaking







Head

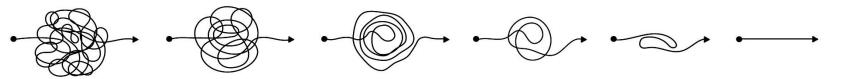
Hurts

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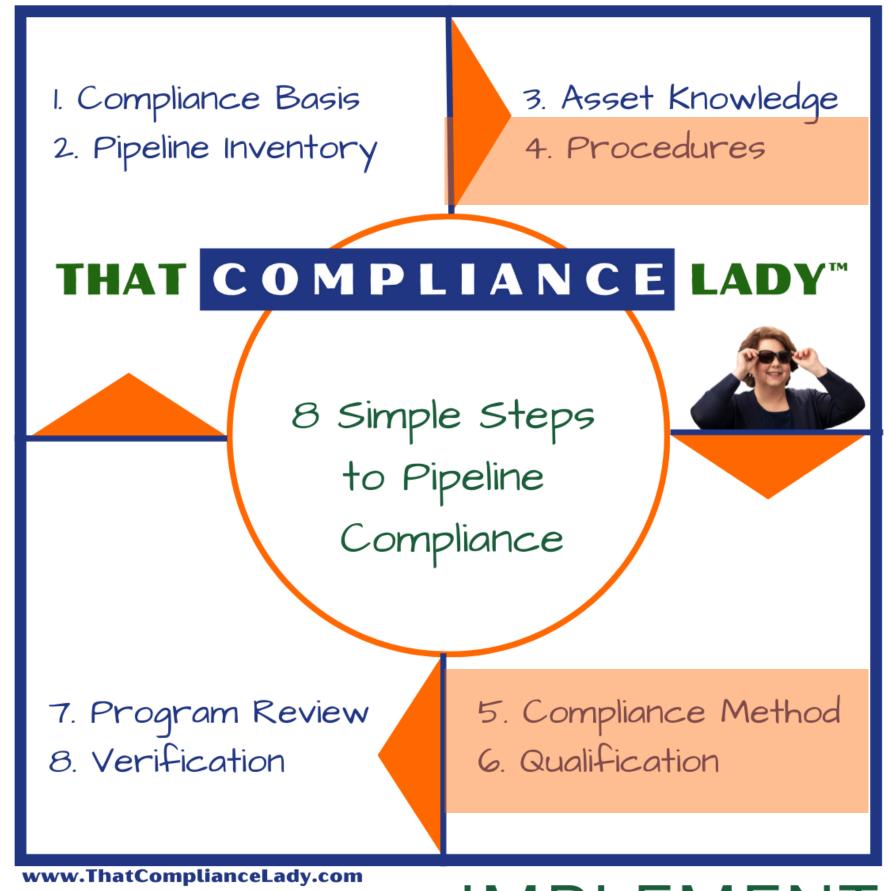
Compliance Framework

Modified Plan-Do-Check-Act

Helps put things in order



IDENTIFY



Geohazard Event Corrective Action Order (CAO)

- 2012 Culvert Washout
- 70' 20" pipeline unsupported
- Ongoing rain for some time
- Fully saturated soil
- Then very heavy rainstorm
- Previous washouts 1990s/1960's



IDENTIFY

1. Compliance Basis

2. Pipeline Inventory

- 1.18.1 During the construction, operation, maintenance and Termination of the Pipeline, Lessees shall conduct a surveillance and maintenance program applicable to the subarctic and arctic environment. This program shall be designed to: (1) provide for public health and safety; (2) prevent damage to natural resources; (3) prevent erosion; and (4) maintain Pipeline integrity.
- 1.18.2. Lessees shall have a communication system that ensures the transmission of information required for the safe operation of the Pipeline.
- 1.18.3. Lessees shall maintain complete and up-to-date records on construction, operation, maintenance and termination activities performed in connection with the Pipeline. Such records shall

A-18

3.5. Slope Stability

3.5.1. Areas subject to mudflows, landslides, avalanches, rock falls and other types of mass soil movements shall be avoided where practicable in locating the Pipeline on State Land. Where such avoidance is not practicable, the Pipeline design, based upon detailed field investigations and analysis, shall provide measures to prevent the occurrence of, or protect the Pipeline against, the effects of such mass movements.

Identify regulations that may be applicable to your assets

- Federal PHMSA
- State
- Local
- Other i.e. TAPS Grant and Lease Stipulations



IDENTIFY

(COS), ILI

Riser ILI

1. Compliance Basis
2. Pipeline Inventory

														4	ion (1	CA	t len	Installe	(S)tee (P)las		thickne	-	9.562 in 9.562 in			
	_														Class Location (1 or 4)	Number of HC, segments	HCA segment leng (miles)	Year Pipe In	Pipe Mat'l - ((C)ast Iron, (Pipe Outside Diameter (in.)	Pipe Wall thi (in.)	Yield Strength SMYS (psi)	MAOP (psi)	Operati		
		İ		<u> </u>		1	<u> </u>	İ		1																
_	1996	1997	1998	1999	2000	2001	2002	2003	2004	2			on 12"،		1,2,3	1	0.26	2004	s	12.75	0.330	60,000	1480	1480		
		Anna Riser ILI (UT) Bruce A Riser		Anna- Riser Replaced		10-10 Bruce A Riser ILI (UT)				Hydro (COS), Geometry					2,3	1	0.21	2004	S	12.75	0.330	60,000	1480	1480		
		09-13 Anna-Riser ILI (UT)			,		11-15		09-25 ILI (Geo)	Hydrotest (COS)	Ì	ction	12"		2	0	0.00	2004	s	12.75	0.330	60,000	1480	1480		
							Anna-Riser ILI (UT)		10-03 ILI (UT)			nction 1	2"		1,2	0	0.00	2003	s	12.75	0.330	60,000	1480	1480		
	Riser ILI							Operations		To be		etion 12	."		1,2	0	0.00	2003	S	12.75	0.330	60,000	1480	1480		
	(UT)							Suspended		Abandoned		Junct	ion 12"		1,2,3	1	0.24	2003	s	12.75	0.330	60,000	1480	1480		
		Riser ILI (UT)-attempt				Riser ILI (UT)		Operations Suspended 07-27		To be Abandoned		12	"		1,2,3	1	0.28	2003	s	12.75	0.330	60,000	1480	1480		
	Riser ILI (UT)						11-01 Riser ILI (UT)	ILI (Geo), Riser					12"		1,2,3	3	0.40	2003	s	12.75	0.330	60,000	1480	1480		
	08-13					10-10	(31)	Renlaced ILI (Geo),					4		1,2,3	3	0.82	2003	S	12.75	0.330	60,000	1480	1480		
	Riser ILI (UT)					Riser ILI (UT)		Riser Replaced, Hydrotest							1,2	0	0.00	2003	S	6.625	0.280	60,000	1480	1480		
					ILI (MFL)			Try dro to st		Operations			-													
					•	Riser ILI				Suspended					2	0	0.00	2004	S	8.625	0.322	52,000	1480	14′		
					•	(UT) Riser ILI		Operations							2	0	0.00	2003	s	8.625	0.322	52,000	1480			
						(UT)		Suspended					ILI (UT) or		1	0	0.00	2003	S	8.625	0.322	52,000	1480			
	Riser ILI (UT)			Operations Suspended						To be Abandoned			Hydro (Drop Dead		2	0	0.00	2003	s	8.625	0.322	52,000	14′			
		Riser ILI				Geometry	 			To be			Date)		2	0	0.00	2006	s	6.625	0.250	60,000				
		(UT) 10-14				Hydrotest		•	•	Abandoned					`	0	0.00	2005	S	8.625	0.322	52,000				
	ı	1	I	I	I	1,	I	I		I	ILI (Geo &	ı 1							_							

- Shipping Shipping Volume Calcs 0.750 ln 33,792 Ft 5.438 Ft 0.312 ln 8.625 ln 0.500 ln 16.000 In 12.750 ln
 - List of Pipelines/Assets
 - Basic info (type, SMYS)
 - Last hydo/ILI etc.
 - **Keep Updated**
 - **Line Classification**
 - Can be GIS
 - What applies to what
 - One source



Establish and maintain history of:

- Inspections
- Construction
- Repairs
- Conversions to Service
- Flow Reversal
- Testing
- MAOP

Identify assets and features to be included in overall programs:

- PSVs, valves, tanks
- Water, road and foreign pipeline crossings
- CP Equipment, Chemicals etc.

3. Asset Knowledge

4. Procedures





Who What When Where Why How

O&M, PSOM, OQ, PA/DP, D&A, IM

All Updated Annually to include:

- Regulatory Changes
- Follow up from Inspections
- Modifications to:
 - Equipment
 - -safety devices
 - –Operations
 - Maintenance
 - Personnel
 - Organization
 - -Etc.

3. Asset Knowledge

4. Procedures





ALSO Who What When Where Why How

Demonstrate done:

- On time
- Correctly
- By qualified personnel
- Follow up initiated if needed

5. Compliance Method

6. Qualification



Ensure all Training and Qualification Requirements Identified



Pipeline Career Path Training:

Introduction to the **Pipeline Industry**

Company specific tasks are developed Pay attention to Non-routine work and Contractors

OQ, CRM, Emergency Response, Qualifications for specific roles such as Integrity Management, Corrosion

- 5. Compliance Method 6. Qualification

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Review, assess and adjust programs based on information in Items 1-6

- Some specifically called out in regulations
 - PA/DP
 - IM
- Others Good Practice for pipeline safety
- Inherently expected by agency reviews



↑ Evergreen:**→***i*/*i*

Browse Regulations

General Keyword Search

General Keyword Search

Search all regulations for: effectiveness

Search

Search Results

22 Section matches found for 'effectiveness'. Print Results

- 1. Section 190.335 Petitions for reconsideration.
- 2. Section 190.338 Appeals.
- 3. Section 192.477 Internal corrosion control: Monitoring.
- 4. Section 192.605 Procedural manual for operations, maintenance, and emergencies.
- 5. Section 192.617 Investigation of failures and incidents.
- Section 192.631 Control room management.
- 7. Section 192.917 How does an operator identify potential threats to pipeline integrity and use the
- 8. Section 192.925 What are the requirements for using External Corrosion Direct Assessment (E
- 9. Section 192.927 What are the requirements for using Internal Corrosion Direct Assessment (IC
- 10. Section 192.945 What methods must an operator use to measure program effectiveness?
- 11. Section 192.1007 What are the required elements of an integrity management plan?
- 12. Section 192.1015 What must a master meter or small liquefied petroleum gas (LPG) operator
- 13. Section 193.2623 Inspecting LNG storage tanks.
- 14. Section 193.2905 Protective enclosures.
- 15. Section 195.402 Procedural manual for operations, maintenance, and emergencies.
- 16. Section 195.446 Control room management.
- 17. Section 195.452 Pipeline integrity management in high consequence areas.
- 18. Section 195.579 What must I do to mitigate internal corrosion?
- 19. Section 195.588 What standards apply to direct assessment?
- 20. Section 198.55 What criteria will PHMSA use in evaluating the effectiveness of State damage
- 21. Section 194.99991 Appendix A to Part 194 Guidelines for the Preparation of Response Plans
- 22. Section 195.99993 Appendix C to Part 195 Guidance for Implementation of an Integrity Mana





Internal Audits

- Identify program gaps
- Confirm system strengths

External Agency Audits

This is not the time to find gaps

7. Program Review 8. Verification THAT COMPLIANCE LADY







State Regulations NEW! Your Saved Searches (36) Start a New Search Your Search Results Federal Regulations Your Search Results Save All Print All Enforcement Actions (99) Interpretations (21) Special Permits (19) State Waivers (0) Advisory Bulletins (26) FAQs (0) Save Selected Export to CSV Displaying results 1 - 99 of 99 Save All Print **PROPOSED PHMSA** SAVE DATE **IDENTIFIER OPERATOR/ENTITY** REGION **CASE TYPES** PENALTY VIEW 8-22-2022 GULF SOUTH PIPELINE COMPANY, LLC Central Proposed Civil Penalty, Proposed Compliance Order, Warning Item \$90700 32022053NOPV view 2-22-2022 Proposed Civil Penalty, Proposed Compliance Order, Warning Item FLORIDA GAS TRANSMISSION CO \$19300 42022012NOPV Southwest view



Always Inspection Ready



Search Criteria

• Regulation Parts: Pt 190, Pt 191, Pt 192, Pt 193, Pt 194, Pt 195, Pt 196, Pt 198, Pt 199

· Keywords: alabama

 Document Types: Enforcement Actions, Interpretations, Special Permits, State Waivers, Advisory Bulletins, Frequently Asked Questions (FAQs)

• Region: All

• Case Status: Open, Closed

• Petition for Reconsideration? Both

• Subjects: All

• Proposed Penalties: All

• Case Types: Corrective Action Order, Letter of Concern, Notice of Amendment, Proposed Civil Penalty, Notice of Proposed Safety Order, Proposed Compliance Order, Warning Item Letter

Interpretations

Date	Operator/Entity	Code Section	PHMSA Identifier
7-31-2018	Alabama Public Service Commission	§192.727	PI-17-0018
9-24-1999	Chief, Gas Pipeline Safety Division	§192.1	PI-99-0103
3-7-1996	Kerotest Manufacturing Corp.	§192.145	PI-96-006
3-4-1996	Americas Marketing Group, Inc.	§192.145	PI-96-0100
11-9-1995	Alabama Public Service Commission	§195.2	PI-95-050

Browse Regulations

General Keyword Search

To browse the regulations directly, please <u>double-click</u> a Part folder you want to view.

```
PART 190 - Pipeline Safety Enforcement and Regulatory Proc
 PART 191 - Transportation of Natural and Other Gas by Pipel
PART 192 - Transportation of Natural and Other Gas by Pipel
  🗕 🚇 Subpart A - General (Sections 192.1 - 192.18)
  ե 🚇 Subpart B - Materials (Sections 192.51 - 192.69)
 Subpart C - Pipe Design (Sections 192.101 - 192.127)
  Subpart D - Design of Pipeline Components (Sections 192.
  Subpart E - Welding of Steel in Pipelines (Sections 192.221
  ├ 

Subpart F - Joining of Materials Other Than by Welding (Se
  Subpart G - General Construction Requirements for Transm
  ├ 

Subpart H - Customer Meters, Service Regulators, and Ser
  Subpart I - Requirements for Corrosion Control (Sections 1)
  ├ 🊇 Subpart J - Test Requirements (Sections 192.501 - 192.517
  - Subpart K - Uprating (Sections 192.551 - 192.557)
 - Subpart L - Operation's (Sections 192.601 - 192.636)
     Section 192.601: Scope.
    Section 192.603: General provisions.
     Section 192.605: Procedural manual for operations, main
     Section 192.607: Verification of Pipeline Material Properti
     Section 192.609: Change in class location: Required stud
     Section 192.610: Change in class location: Change in val
     - 🚇 Section 192.611: Change in class location: Confirmation 🤉
     Section 192.612: Underwater inspection and reburial of p
     Section 192.613: Continuing surveillance.
     Section 192.614: Damage prevention program.
     Section 192.615: Emergency plans.
     Section 192.616: Public awareness.
     Section 192.617: Investigation of failures and incidents.
     Section 192.619: Maximum allowable operating pressure:
     Section 192.620: Alternative maximum allowable operating
       Section 192.621: Maximum allowable operating pressure:
```



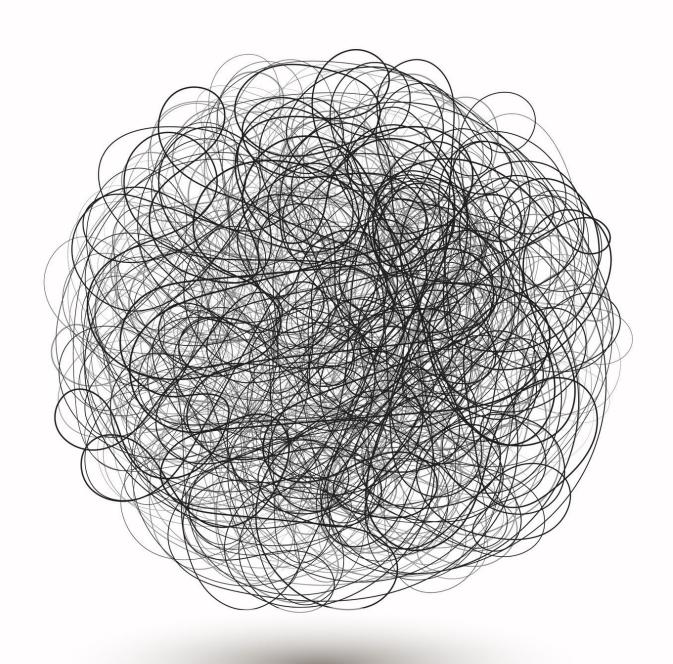
State Regulations

Browse Regulations

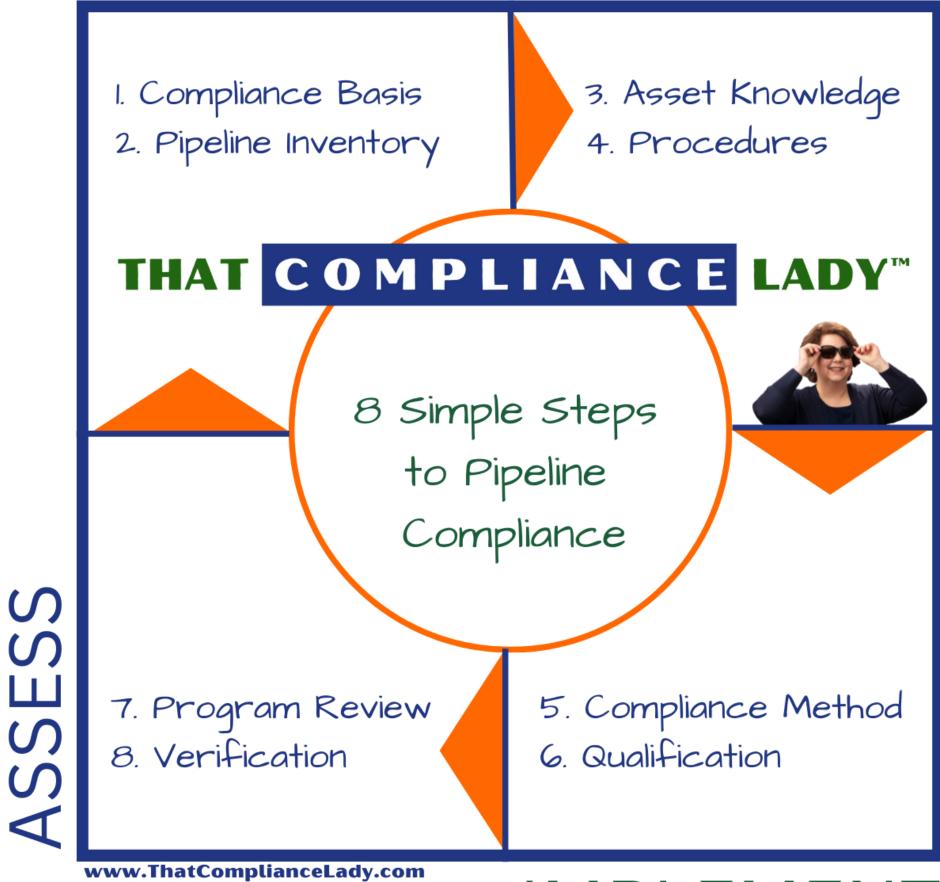
General Keyword Search

To browse the regulations directly, please <u>double</u> view.

```
Alabama
  Administrative Code of Alabama
    Chapter 1 - General Rules
    Chapter 6 - Natural Gas Rules
    Chapter 7 - Gas Pipeline Safety Rules
      §770-X-7-.01 - Applicability
       §770-X-7-.02 - Operating And Maintenanc
       §770-X-7-.03 - Emergency Plans - Filings
       §770-X-7-.04 - Updating Of Filings
       §770-X-7-.05 - Drug Testing Of Employees
       §770-X-7-.06 - Reporting Of Construction
       §770-X-7-.07 - Annual Reporting
       §770-X-7-.08 - Safety Related Condition F
       §770-X-7-.09 - Telephonic Reporting Of Ac
       §770-X-7-.10 - Accident/Incident Reporting
       §770-X-7-.11 - Safety Compliance Procee
       §770-X-7-.12 - Applicable Safety Regulation
       §770-X-7-.13[1] - Abandoned Or Inactive (
       §770-X-7-.14 - Recommended Fines For F
       §770-X-7 App - Regulations GPS - 1 Susp
  🗕 🕮 Chapter 11 - Pipeline Transportation Compa
Lagrandian Code of Alabama 1975
  - Chapter 4, Article 3 - Gas Pipeline Systems
       §37-4-80 - Definitions
```



IDENTIFY







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Questions?

